DBR No 11/16-17
DATED 29-07-2016

Original/Duplicate/Triplicate
CONTRACT CERTIFICATE
(For Other Works)

No. First & Final

Division: **Project** Sub-Division: **Project**

Bill Received No. Dated Divisional / Sub Divisional Cash Book Voucher No..... Dated.....

Schedule Docket No. Head of Account: P 2786 **Work Code:** 001-13-000004 Est.Cost:100.00 lacs D.R.No. :

Name of Work: Widening of Road from NH-7 upto SWD bridge along Jakkur Road Near Raithara Santhe in Yelahanka.

Name of Contractor and Full Address: **M/s.Sathya Constructions.**

Reference to Supplementary Agreement No.: EE(Project)/Ynk Zone/Agree/04/16-17, Date: 22.06.2016

Certified that the measurements were taken by me on 25.07.2016 and recorded of Pages 283 to 285 of measurement Book No. 32/12-13... and that the work is satisfactorily executed.

Contractor

Officer-in-charge of work

Certified that the measurement were taken by me on 25/7/16 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Bank Guarantee 1040136151400008
dated 12-12-2014 Rs 435000/-

Asst. Executive Engineer
Sub Division Officer
Project Division
Yelahanka Zone
Bangalore

II Memorandum of Payment

1) Total value of work done or supplies made as per account within		
2) Deduct amount to be held in reserve being .....percent Rs.....		
3) " Balance		
4) Deduct Payment:		
a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D. No.....	1st & Final Bill	9151810
adjusted towards cash advance recovery of	IT 1%	91518 -
b) Payments Now made } cost store or other material supplied.	VAT 4%	366072 -
recovery of amount creditable to this/other work	L.cess 1%	91518 -
Amount paid on this bill Cheque / Cash.	CBF 0.1%	9152 -
5) Balance being unpaid value of work done held in reserve.		
6) Deduct cash advance made on the Office cash Book Voucher No..... dated.....less adjustments.	LR	290257 -
7) Net amount due to or from Contractor unadjustments items.	Total deductes	848571 -
8) Advance to Contractor for materials brought to site (as detailed) within.		
9) Value of Government materials supplied.	By cheque	8303299 -
Total amount adjusted -		

Contractor's Signature

Received Rs..... (in words).....

.....

by cash and by adjustment of Payment as per memorandum (in final settlement of all demands)

Witness
1.
2.

Dated Signature of Contractor

Paid by me by Cheque No.....Dated.....
Cash Rs.....
Dated.....
Initials of Officer making payment

Stamp

(For use in the Office)

Audited & Admitted for Rs. 9151810/-
Ninety one lakhs fifty one thousand eight hundred ten only
Rs. 8303299/- by Cheque
and Rs. 848571/- by Adjustment

Executive Engineer

Accts. Supdt.
Project Division
B.B.M.P.

Ex. Engineer
Project Division
B.B.M.P

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Sl. No.	Items grouped under sub-Heads and Sub-Works of the Estimate	Unit
1	Dismantling of barbed wire fencing / wire mesh fencing including posts, foundation concrete, back filling of pit by manual means including disposal of dismantled material with all lifts and stacking serviceable material and unserviceable material separately complete as per specifications MORTH Specification No. 202and inclusive of all lead and lift and as per directions of Engineer-in-charge	Rmt
2	Cutting of trees girth from 300mm to 600mm including cutting of trunks, branches and removal of stumps stacking of serviceable materials earth filling in the depressions / pit, labour charges complete as per specifications. MORTH specification clause 201/ Chapter 2 600mm to 900mm and inclusive of all lead and lift and as per directions of Engineer-in-charge	No
3	KSRRB 200-8. Clearing and grubbing road land including uprooting rank vegetation, grass, brush, shrubs, saplings and trees of girth upto 300mm,by manual means, in area of light jungle, removal of stumps, disposal of unserviceable materials, stacking of serviceable materials labour charges complete as per specifications,and inclusive of all lead and lift and as per directions of Engineer-in-charge.	Sqm
4	For dismantling of existing structures and other miscellenous works etc complete and inclusive of all lead and lift and as per directions of Engineer-in-charge.	day
5	For dismantling of existing structures and other miscellenous works etc complete and inclusive of all lead and lift and as per directions of Engineer-in-charge	day
6	Dismantling of existing structures like culverts, bridges,retaining walls and other structure comprising of masonry, cement concrete,wood work, steel work, including T&P and scaffolding wherever necessary,sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specificationsand inclusive of all lead and lift and as per directions of Engineer-in-charge.	Cum
7	Excavation for road way in soil by mechanical means including cutting and pushing the earth to site of embankment upto a including trimming bottom and side slopes in accordance with requirements of lines, grades and cross sections complete as per specifications MORTH Specification No. 301and lead 10km lead and inclusive of all lead and lift and as per directions of Engineer-in-charge. Upto 125%	Cum
	-do-above 125%	
8	KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications.MORTH / Chapter 3 and inclusive of all lead and lift and as per directions of Engineer-in-charge.	Sqm
9	Construction of granular sub base by providing close graded material,mixing in a machanical mix plant at OMC, carriage of mixed material to work site,spreding in uniform layers with motar grader on prepared surface and compacting with vibratory power roller to achieve the desired density,complete as per specifications For grading II meterial and inclusive of all lead and lift and as per directions of Engineer-in-charge. Up to 125%	Cum
	-do-above 125%	
10	Providing laying Compacting graded stone agregates to wet mix mecadam specification including premixing the material with water at OMC in mechanical mix plant carriage of mixed material by tipper to site, laying in uniform layers with paver in Sub base/base coarse on well prepared surface & compacting with vibratory roller to achioeve the desire density complete as per specifications and inclusive of all lead and lift and as per directions of Engineer-in-charge. Up to 125%	Cum
	-do-above 125%	
11	Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH Specification No. 502 and inclusive of all lead and lift and as per directions of Engineer-in-charge.	Sqm
12	Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant 40 tonne capacity, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, 50 /75mm compacted thickness with 3.3% bitumen but excluding cost of primer / tack coat with lead upto 1km including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH /Chapter 5 With 60/70 grade bitumenand inclusive of all lead and lift and as per directions of Engineer-in-charge.	Cum
13	Tack Coat:- Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor at the rate of 0.20 kg per sqm on the prepared bituminous/granular surface cleaned with mechancial broom. complete as per specifications. MORTH Specification No. 503 21.10.1 - do - using bitumen emulsion and inclusive of all lead and lift and as per directions of Engineer-in-charge.	Sqm
14	KSRRB M500-19. Providing and laying bituminous concrete with 100-120 TPH batch type hot mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading ,premixed with bituminous binder at 5.4 to 5.6% of mix and filler,transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects as per specifications. 30-45mm compacted thickness (Grading II) with 6% Bitumen 60/70 and inclusive of all lead and lift and as per directions of Engineer-in-charge	Cum

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Previous Measurement		Present Measurement			Total Upto Date		Remarks
Qty.	Cost	Qty.	Rate Rs. P.	Amount	Qty	Cost	
		200.00	100.00	20000.00	200.00	20000.00	
		10.00	300.00	3000.00	10.00	3000.00	
		1500.00	6.00	9000.00	1500.00	9000.00	
		6.00	7300.00	43800.00	6.00	43800.00	
		6.00	2073.60	12442.00	6.00	12442.00	
		100.00	276.48	27648.00	100.00	27648.00	
		1350.00	200.00	270000.00	1350.00	270000.00	
		430.19	73.42	31584.00	430.19	31584.00	
		2796.30	3.78	10570.00	2796.30	10570.00	
		750.00	1100.00	825000.00	750.00	825000.00	
		90.30		120740	90.30	120740	
		90.35	1337.10	120807.00	90.35	120807.00	
		750.00	1200.00	900000.00	750.00	900000.00	
				364829		364829	
		246.22	1481.72	364828.00	246.22	364828.00	
		4260.00	40.00	170400.00	4260.00	170400.00	
		215.20	6300.00	1355760.00	215.20	1355760.00	
		4260.00	10.80	46008.00	4260.00	46008.00	
		170.40	10530.00	1794312.00	170.40	1794312.00	

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Sl. No.	Items grouped under sub-Heads and Sub-Works of the Estimate	Unit
15	Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications MORTH Chapter 3 and inclusive of all lead and lift and as per directions of Engineer-in-charge	Cum
16	Providing and laying in position plain cement concrete of mix M7.5 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregtes @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth,including cost of all materials, labour, HOM of machinery, curing complete as per specifications and inclusive of all lead and lift and as per directions of Engineer-in-charge	Cum
17	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc., including smooth finish in CM 1:3, with all lead and lift etc., complete. (exculsive of cost of steel and fabrication charges) 4.49.1 - do - Ready mixed Cement concrete for Beams, Columns, Staircase and Roof with M-20 (Cement-320 Kg/cum) and inclusive of all lead and lift and as per directions of Engineer-in-charge.	Cum
18	Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.and inclusive of all lead and lift and as per directions of Engineer-in-charge.	mt
19	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specificaitons.and inclusive of all lead and lift and as per directions of Engineer-in-charge.	Sqm
20	Providing pre cast slabs of size 1.0x.60m for drain covering slaband inclusive of all lead and lift and as per directions of Engineer-in-charge	Sqm
21	Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications.and inclusive of all lead and lift and as per directions of Engineer-in-charge. Up to 125%	Cum
	-do-above 125%	
22	Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803 and inclusive of all lead and lift and as per directions of Engineer-in-charge. Up to 125%	Sqm
	-do-above 125%	
23	Providing and fixing Pre cast solid concrete kerb stones made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc., complete.of size 450x200x400mm and inclusive of all lead and lift and as per directions of Engineer-in-charge.	No
24	Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specificatins. Specification No.KRBS 800.3 MORT & H Specification No.800 and inclusive of all lead and lift and as per directions of Engineer-in-charge.	Sqm
25	Dismantling burnt brick masonry in clay mortar/lime mortar/cement mortar and stacking the bricks within a radius of 50m and removing the debris to a distance upto 200m and inclusive of all lead and lift and as per directions of Engineer-in-charge	Cum
26	Dismantling cement concrete flooring or plain cement concrete work including removing and conveying the debris to distance upto 200m (within average thickness of 15 cms) and inclusive of all lead and lift and as per directions of Engineer-in-charge.	Cum
27	Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width in hard soil depth not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m. after breaking of clods complete as per specifications and inclusive of all lead and lift and as per directions of Engineer-in-charge	Cum
28	KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications and inclusive of all lead and lift and as per directions of Engineer-in-charge.	Cum
29	Providing and constructing granite/trap/basalt size stone masonry in **foundation with cement mortar 1:6**, stone hammerd dresssed in courses not less then 20cms high,bond stones at two m apart in each course including cost of materials, labour, curing complete as per Specification and inclusive of all lead and lift and as per directions of Engineer-in-charge.	Cum

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Previous Measurement		Present Measurement			Total Upto Date		Remarks
Qty.	Cost	Qty.	Rate Rs. P.	Amount	Qty	Cost	
		169.87	148.47	25221.00	169.87	25221.00	
		26.01	3884.76	101043.00	26.01	101043.00	
		92.94	5637.60	523959 523954.00	92.94	523959 523954.00	
		10.728	73300.00	786362.00	10.73	786362.00	
		396.36	250.00	99090.00	396.36	99090.00	
		388.33	1300.00	504829.00	388.33	504829.00	
		150.00	100.00	15000.00	150.00	15000.00	
		19.87	122.36	2431.00	19.87	2431.00	
		75.00	500.00	37500.00	75.00	37500.00	
		126.00	489.46	61672 61671.00	126.00	61672 61671.00	
		950.00	300.00	285000.00	950.00	285000.00	
		149.63	61.00	9127.00	149.63	9127.00	
		32.83	146.30	4803.00	32.83	4803.00	
		12.16	51.31	624.00	12.16	624.00	
		54.72	267.49	14637.00	54.72	14637.00	
		18.65	4900.00	91385.00	18.65	91385.00	
		42.62	3878.07	165283.00	42.62	165283.00	

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Sl. No.	Items grouped under sub-Heads and Sub-Works of the Estimate	Unit
30	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications and inclusive of all lead and lift and as per directions of Engineer-in-charge.	Cum
31	Providing **ruled pointing to coursed stone mansonry with cement mortar 1:4** 20mm deep, after raking jionts to depth of 20mm nicely lining including cost of all materilas, labour, curing complete as per specifications and inclusive of all lead and lift and as per directions of Engineer-in-charge.	Sqm
32	KSRB 5-14 : Providing and constructing precast concrete solid blocks with compressive strength not less than 3.5 Newton per sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x15x20cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications and inclusive of all lead and lift and as per directions of Engineer-in-charge.	Sqm
33	KSRB 4-1.6 : Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications and inclusive of all lead and lift and as per directions of Engineer-in-charge.	Cum
34	KSRB15-3.10 : Providing 20mm thick cement plaster in single coatwith cement mortar 1:3, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and inclusive of all lead and lift and as per directions of Engineer-in-charge	Sqm
35	KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. -do- with primer and inclusive of all lead and lift and as per directions of Engineer-in-charge.	Sqm
36	KSRB 15-18.1 : Applying red lead ready mix priming coat over new steel or other metal surface including preparing the surface after throughly cleaning oil, grease, dirt and other foreign matter, and I scoured with wire brushes, fine steel wool, sand papers including cost of materials, labour, complete as per specifications and inclusive of all lead and lift and as per directions of Engineer-in-charge.	Sqm
37	KSRB 15-18.3 : Providing and applying enamel metal paint one coat (excluding priming coat) on previously painted steel or other metal ; surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications and inclusive of all lead and lift and as per directions of Engineer-in-charge.	Sqm
38	Scarifying existing stone metal layer upto 75mm thick along with their bituminous surface, picking up scarified materials and stacking of old serviceable materials with lead of 100 m sequential spreading of the salvaged aggregates with fresh aggregates on prepared base and consolidating as per water bound macadam specifications, including cost of materials, labour, complete as per specifications	Sqm
39	Providing and fixing of Reflective Raised Pavement marker (RPM's) / Cat eyes / Road studs confirming to ASTM D4280 type H, having reflective panels made of prismatic lens of total internal reflection, the prismatic lens should be electronically fixed (welded) to the body made of polycarbonate mould, with a height of 20mm, size of 130mm x 105mm and reflecting area of 13sqm with the slope of retro reflective surface within the limit of 35 + 5 degree to the base on either side. The marker shape II display an initial minimum luminous intensity of 279mcd/ lux at an entrance angle of zero degree and observation angle of 0.2 degree. The corresponding values for 20 degree entrance and 0.2 degree observation angle shall be 112 mcd / lux with color multiplying factor on either cases for white, yellow and red markers being 1.0, 0.6 and 0.25 respectively. The RPM's should be fixed by using two numbers of polymer shanks using appropriate adhesive as recommended and certified by the RPM manufacturer. The raised pavement marker should support a sufficient minimum load 13635 Kg in accordance with ministry specification. with all lead and lift and directions of the Engineer in charge of the work	Nos
	TOTAL	

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Previous Measurement		Present Measurement			Total Upto Date		Remarks
Qty.	Cost	Qty.	Rate Rs. P.	Amount	Qty	Cost	
		12.31	4592.11	56529.00	12.31	56529.00	
		74.52	90.62	6753.00	74.52	6753.00	
		70.49	950.96	67033.00	70.49	67033.00	
		1.07	5385.85	5763.00	1.07	5763.00	
		152.70	256.57	39178.00	152.70	39178.00	
		152.70	81.89	12505.00	152.70	12505.00	
		18.00	28.39	511.00	18.00	511.00	
		18.00	52.41	943.00	18.00	943.00	
		1459.00	74.98	109396.00	1459.00	109396.00	
		360.00	333.72	120139.00	360.00	120139.00	
	0.00		Rs	9151869.00	Rs	9151869.00	

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Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

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